



Patent Application Attorney Docket No. D/A1442

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Thomas W. Smith et al.

Application No.: 10/035,736

Filed: November 7, 2001 Examiner: C. Shosho

Art Unit: 1714

Confirmation No.: 5048

Commissioner for Patents

Alexandria, VA 22313-1450

Title: INK

Mail Stop Petitlon

P.O. Box 1450

COMPOSITIONS

CONTAINING VA 22313-1450, on

QUARTERNARY-SUBSTITUTED LIGHTFASTNESS AGENTS

CERTIFICATE OF MAILING

certify hereby that correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop: Petition, Commissioner for Patents, P.O. Box 1450, Alexandria,

December 22, 2004

(Date of deposit)

Cathy Whitney

(Name of applicant, assignee, or Registered Representative)

December 22, 2004

Date of Signature

01/04/2005 HALI11

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Sir:

PETITION TO REVIVE UNDER 37 C.F.R. §1.137(b)

This Petition is filed in response to the Notice of Abandonment malled November 26, 2004 in the above identified application. A copy of this Notice of Abandonment is attached hereto as Exhibit A. Applicants hereby petition for revival of U.S. Patent Application 10/035,736.

- 1. Applicants received an Office Action mailed April 19, 2004 for the instant application. A copy of this Office Action is attached hereto as Exhibit B.
- 2. Applicants' Attorney Judith L. Byorick prepared a response to this Office Action. This response is enclosed herewith as required by 37 C.F.R. §1.137(b)(1). A second copy of this response is attached hereto as Exhibit C.
- 3. On July 12, 2004, Xerox Administrative Assistant Jean A. Hough faxed for Xerox Attorney Judith L. Byorick a copy of this response to facsimile number 703-872-9806. As can be seen from page 5 of Exhibit B, this number is an incorrect rendition or key entry error of "(t)he fax phone number for the organization where this application or proceeding is assigned". But for this key entry error, this response would have been received by the U.S.P.T.O.
- 4. Upon sending the aforesaid response, Xerox Administrative Assistant Jean A. Hough received a confirmation report indicating that the transmission had been successfully sent to facsimile number 703-872-9806. A copy of this confirmation report is attached hereto as Exhibit D.

- 5. On November 12, 2004, Examiner Callie E. Shosho contacted Xerox Attorney Judith L. Byorick to determine whether Xerox intended to abandon the instant patent application by fallure to submit a response to the Office Action dated April 12, 2004. During this telephone conversation, Xerox Attorney Judith L. Byorick stated that to the best of her knowledge a response had been sent and that there had definitely been no intention to abandon the application.
- 6. Upon further investigation, Xerox Attorney Judith L. Byorick discovered that the response sent July 12, 2004 had been sent to the incorrect facsimile number indicated on the confirmation report (Exhibit D) instead of to the correct facsimile number.
- 7. Applicants hereby state that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 C.F.R. §1.137(b) was unintentional.
- 8. Applicants further include herewith a terminal disclaimer as required by 37 C.F.R. §1.137(b)(4) and 37 C.F.R. §1.137(d).
- 9. In view of the above facts, Applicants hereby petition for revival of U.S. Patent Application 10/035,736.
- 10. Authorization is hereby granted to charge Deposit Account No. 24-0025 the fee set forth in 37 C.F.R. §1.17(m) for this petition of \$1,500. Authorization is also hereby granted to charge Deposit

Application No. 10/035,736

Account No. 24-0025 any other necessary fees associated with this petition.

Respectfully submitted,

Juditt L. Byorick Attorney for Applicant(s) Registration No. 32,606 (585) 423-4564

JLB/cw

Xerox Corporation Xerox Square 20A Rochester, New York 14644



United States Patent and Trademark Office

JLB

UNITED STATES DEPARTMENT OF COMMERCE
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P.O. Box 1459

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,736	11/07/2001	Thomas W. Smith	D/A1442	5048
75	90 11/26/2004		EXAM	INER
	entation Center		SHOSHO, CALLIE E	
Xerox Corporat Xerox Sq. 20th	ion Floor		ART UNIT	PAPER NUMBER
100 Clinton Av	e, S.		1714	•
Rochester, NY	14644	•	DATE MAILED: 11/26/2004	
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Please find below and/or attached an Office communication concerning this application or proceeding.

n A. of abandonment / Pet- to Resine or COS to abandon due: 12-26-04

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NOV 2 9 2004
PATENT DEPARTMENT

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70 8	Application No.	Applicant(s)	
Notice of Abandonment 0 3 7005	10/035,738	SMITH ET AL.	
Mulice of Abandonness	Examiner	Art Unit	
PRADE METERS	Callie E. Shosho	1714	
- The MAILING DATE of this communication app	ears on the cover sheet with the c	correspondence address-	
This application is abandoned in view of:		• .	
 Applicant's failure to timely file a proper reply to the Offic (a) A reply was received on (with a Certificate of I period for reply (including a total extension of time of 	Mailing or Transmission dated month(s)) which expired on _		
(b) A proposed reply was received on, but it does			
(A proper reply under 37 CFR 1.113 to a final rejection application in condition for allowance; (2) a timely filed Continued Examination (RCE) in compliance with 37	Notice of Appeal (with appeal fee);		
(c) A reply was received on but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).			
(d) ☑ No reply has been received.			
2. Applicant's failure to timely pay the required issue fee an from the mailing date of the Notice of Allowance (PTOL-	d publication fee, if applicable, within 35).	n the statutory period of three months	
 (a) The issue fee and publication fee, if applicable, wa), which is after the expiration of the statutory p Allowance (PTOL-85). 			
(b) ☐ The submitted fee of \$ is insufficient. A balance	e of \$ is due.	-	
The issue fee required by 37 CFR 1.18 is \$	The publication fee, if required by 3	7 CFR 1.18(d), is \$	
(c) ☐ The issue fee and publication fee, if applicable, has n	ot been received.		
3. Applicant's failure to timely file corrected drawings as req Allowability (PTO-37).	uired by, and within the three-month	period set in, the Notice of	
(a) ☐ Proposed corrected drawings were received on after the expiration of the period for reply.	_(with a Certificate of Mailing or Tra	ansmission dated), which is	
(b) ☐ No corrected drawings have been received.			
The letter of express abandonment which is signed by the applicants.	e attorney or agent of record, the as	ssignee of the entire Interest, or all of	
5. The letter of express abandonment which is signed by at 1.34(a)) upon the filing of a continuing application.	attorney or agent (acting in a repre	esentative capacity under 37 CFR	
6. The decision by the Board of Patent Appeals and Interfer of the decision has expired and there are no allowed clair		use the period for seeking court review	
7. The reason(s) below:			
		•	
	·	Callie E. Shosho Primary Examiner PY18 UY Art Unit 1714	
Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdra minimize any negative effects on patent term. U.S. Patent and Trademark Office	w the holding of abandonment under 3	7 CFR 1.181, should be promptly filed to	
	of Abandonment	Part of Paper No. 20041118	

200	Application No.	Applicant(s)	
6176		SMITH ET AL.	
Interview Summary	10/035,736	Art Unit	
JES 0 3 2000 ES	Examiner		
3	Callie E. Shosho	1714	
All participants (applicant, applicant's representative, PTO	personnel):		
(1) Callie E. Shosho.	(3)	•	
(2) Judith Byorick.	(4)		
Date of Interview: 15 November 2004.			
Type: a)⊠ Telephonic b)□ Video Conference c)□ Personal [copy given to: 1)□ applicant	2)□ applicant's representativ	re]	
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)□ No .		
Claim(s) discussed:			
Identification of prior art discussed:	•		
Agreement with respect to the claims f) was reached.	g) was not reached. h)	N/A.	
Substance of Interview including description of the general reached, or any other comments: Ms. Byorick confirmed to an amendment was intended to be filed but that such amend that a petition would be filed to revive the application.	hat the application was abang endment was inadvertantly fa	loned. Ms. Byorick noted that	
(A fuller description, if necessary, and a copy of the amen allowable, if available, must be attached. Also, where no allowable is available, a summary thereof must be attached	copy of the amendments that	greed would render the claims would render the claims	
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.			
•			
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Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,736	11/07/2001	Thomas W. Smith	D/A1442	5048
75	90 04/19/2004	والمراجعة المراجعة المراجعة المراجعة المراجعة المراجعة	EXAM	INER
Patent Documentation Center		RECEIVED	SHOSHO, CALLIE E	
Xerox Corporation Xerox Sq. 20th Floor		APR 2 2 2004	ART UNIT	PAPER NUMBER
100 Clinton Ave. S.			1714	
Rochester, NY 14644			DATE MAR ED. 04/10/2004	

PATENT DEPARTMENT

DATE MAILED: 04/19/2004

AMA duli: 7-19-04

Please find below and/or attached an Office communication concerning this application or proceeding.

	·	Application No.	Applicant(s)	
Office Action Summary		10/035,738	SMITH ET AL	
		Examiner	Art Unit	
		Callie E. Shosho	1714	
eriod for	The MAILING DATE of this communication app Reniv	pears on the cover sheet with the	correspondence address	
A SHO THE M - Extens after S - # the p - # NO p - Failure Anyre	PRTENED STATUTORY PERIOD FOR REPL' IAILING DATE OF THIS COMMUNICATION. Ions of time may be available under the provisions of 37 CFR 1.1 OK (6) MONTHS from the mailing date of this communication. Incride for reply a pecified above is less than thirty (30) days, a reply seriod for reply is specified above, the maximum statutory period of to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing it patent term adjustment. See 37 CFR 1.704(b).	36(s). In no event, however, may a reply be the y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDON!	mely filed ys will be considered timely. In the mailing date of this communication. ED (36 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 26 N	larch 2004.	•	
•				
(closed in accordance with the practice under l	Ex parte Quayle, 1935 C.D. 11, 4	I53 O.G. 213.	
Dispositio	on of Claims			
5)□ (6)図 (7)□ (Claim(s) 1-44 is/are pending in the application (a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-30,34-39 and 43-44 is/are rejected. Claim(s) 31-33 and 40-42 is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.		
Application	on Papers			
10)□ 1	The specification is objected to by the Examina The drawing(s) filed on is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	cepted or b) objected to by the drawing(s) be held in abeyance. Stion is required if the drawing(s) is constant.	see 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
11)[] 7	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119	*		
a)[:	Acknowledgment is made of a claim for foreign All b) Some c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document application from the International Bureate the attached detailed Office action for a list	ts have been received. ts have been received in Applicate the property documents have been received (PCT Rule 17.2(a)).	ation No ived in this National Stage	
Attachment	· (s)			
1) Notice	of References Cited (PTO-892)	4) Interview Summa		
3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) aution Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Pæper No(s)/Mæll 5) Notice of Informs 6) Other:	el Patent Application (PTO-152)	

Art Unit: 1714

DETAILED ACTION

1. In the office action mailed 2/25/04, claims 28, 31-34, 37, and 40-43 were indicated as objected to as being dependent upon a rejected base claim but allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 28, 34, and 37 are each drawn to quaternary ammonium substituted UV absorbing compound which is a hydroxybenzophenone quaternary compound. These claims were indicated as objected to given that there was no disclosure or suggestion in the "closest" prior art, i.e. Gundlach et al. (U.S. 6,054,505), Vieira et al. (U.S. 5,096,781), and WO 97/20000, of these specific quaternary ammonium substituted UV absorbing compounds.

However, upon reconsideration of Vieira et al., it is noted that the reference does in fact disclose quaternary ammonium substituted UV absorbing compound which is a hydroxybenzophenone quaternary compound. Such disclosure necessitates the new grounds of rejection as set forth in paragraph 5 below.

In light of the above, the after-final amendment filed 3/26/04 has <u>not</u> been entered so that applicants can respond to these new grounds of rejection as set forth below.

Thus, the finality of the office action mailed 2/25/04 has been withdrawn and the following action is non-final. It is noted that in addition to the new grounds of rejection, the rejections of record as set forth in the office action mailed 2/25/04 are also restated below.

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Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-27, 30, 36, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable 3. over Gundlach et al. (U.S. 6,054,505) in view of Vieira et al. (U.S. 5,096,781).

The rejection is adequately set forth in paragraph 3 of the office action mailed 8/26/03 and is incorporated here by reference.

Claims 1-26, 29, 35, 38, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable 4. over Gundlach et al. (U.S. 6,054,505) in view of WO 97/20000.

The rejection is adequately set forth in paragraph 4 of the office action mailed 8/26/03 and is incorporated here by reference.

5. Claims 1-7, 9-17, 19-26, 28, 34, 37, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gundlach et al. (U.S. 6,054,505) in view of Vieira et al. (U.S. 5,096,781).

Gundlach et al. disclose ink comprising water, 0.1-40% nonpolymeric salt, 1-5% anionic dye, and 0.01-50% polyquaternary amine such as polydiallyl dimethyl ammonium, polyquaternized polyvinylamine, polyquaternized polyallylamine, epichlorohydrin/amine, cationic amido amine, and copolymer of vinyl pyrrolidone and vinyl imidazolium salt. In one embodiment, the anionic dye complexes with the polyquaternary amine. It is further disclosed that the above ink is preferably printed using thermal ink jet printer but Gundlach et al. also

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disclose the use of other conventionally known ink jet printing methods including piezoelectric ink jet process (col.1, lines 8-17 and 41-43 and 44-47, col.2, line 46-col.3, line 3, col.6, lines 62-65, col.7, lines 25-27 and 40-55, col.13, lines 15-17 and 31-32, col.15, lines 42-45, col.19, lines 51-58, col.22, lines 35-38, and col.23, lines 18-24).

The difference between Gundlach et al. and the present claimed invention is the requirement in the claims of quaternary ammonium substituted UV absorbing compound.

Vieira et al. disclose the use of 0.01-20% light stabilizer of the formula:

U+SOL1

where U is radical of hydroxybenzophenone and SOL is:

where g is 0, A is alkylene group, Y is direct bond or C(O)NR¹ where R¹ is hydrogen, B is alkylene group, and R₁, R₂, and R₃₃ are each alkoxy group, alkyl group, or aryl group. It is disclosed that the light stabilizer is used in ink jet inks. The motivation for using such light stabilizer is to protect ink against damage caused by light, oxygen, and heat (col.1, lines 5-8, col.2, lines 11-15, col.17, lines 42-45, col.17, line 53-col.19, line 50, col.20, lines 8-9, col.22, lines 61-63, and col.23, lines 1-3).

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In light of the motivation for using light stabilizer disclosed by Vieira et al. as described above, it therefore would have been obvious to one of ordinary skill in the art to use such light stabilizer in the ink of Gundlach et al. in order to produce ink with excellent resistance to light, oxygen, and heat, and thereby arrive at the claimed invention.

Allowable Subject Matter

6. Claims 31-33 and 40-42 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 31-33 and 40-42would be allowable if re-written in independent form as described above given that there is no disclosure or suggestion in the "closest" prior art, i.e. Gundlach et al. (U.S. 6,054,505), Vieira et al (U.S. 5,096,781), or WO 97/20000, of specific quaternary ammonium substituted UV absorbing compound as required in these claims.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Callie E. Shosho Primary Examiner Art Unit 1714

CS 4/14/04

Confirmation Report - Memory Send

Time : 2004-Jul-12 14:45

: +5854235240 Tel line

Name : XEROX

: 854 Job number

Jul-12 14:41 Date

: 0-17038729806-91870 To

Document pages 026

: Jul-12 14:41 Start time

End time Jul-12 14:45

Pages sent 026

: OK Status

*** SEND SUCCESSFUL *** : 854 Job number

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Urgani for Dalivani

Callie Shosho
United States Patent & Trademark Office
Art Unit: 1714
Confirmation No.: 5048

7/12/2004 Phone 571.272.1123

Fex 703.872.9306 Poe+(+) 25

Messege

Application No. 10/035,736 Attorney Docket No. D/A1442

Response to Office Action mailed 4/19/2004.

Judith L. Byorick
Xerox Corporation
OGC/Patent Department
XRX2-20A
Rochester NY 14644
Phone: 585.423.5764
Fax: 585.423.5240

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01/04/2005 01 FC:1814

Customer No.: 25453

Patent Application Attorney Docket No. D/A1442

TERMINAL DISCLAIMER ACCOMPANYING PETITION TO REVIVE

In re Application of:	Thomas W. Smith et	al.	
Application No.: Filed: For:	10/035,736 November 7, 2001 INK COMPOSITIONS LIGHTFASTNESS AG	CONTAINING QUATERNA	Confirmation No.: 5048 r: Callie Shosho ARY-SUBSTITUTED
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∑ The undersigned is a	an attorney or agent of reco	Signature	- fyl:
RLI11 00000017 240025	10035736	Typed or print 32,606 Registration N 585-423-456	fo.
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